

# **Creating Published Maps In Support of the Resource Management Plan EIS**

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# Map Types:



## Informational Maps

Public scoping, internal meetings, limited distribution, plotted or presented



## Planning Maps

Printed documents



## Map Series

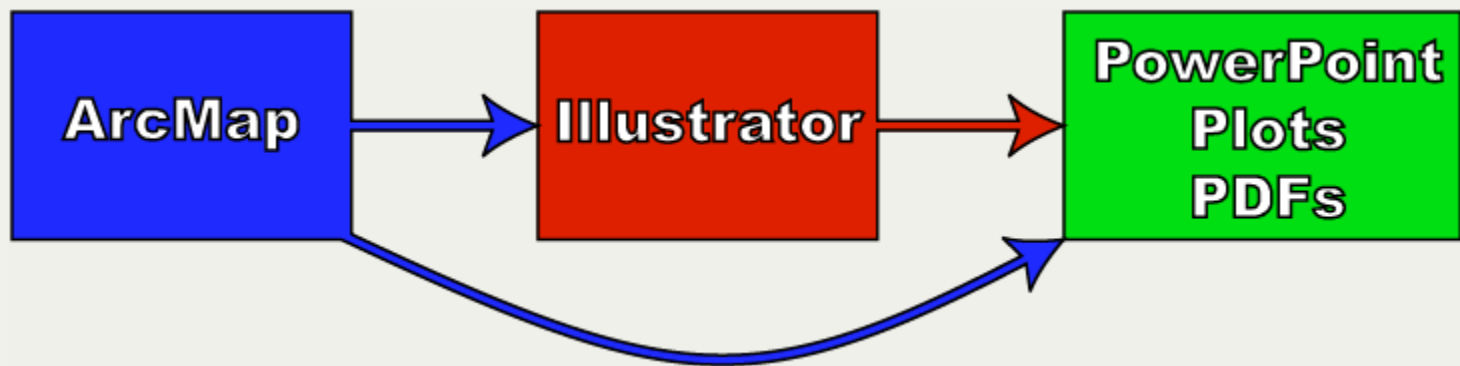
Printed- *Not applicable to Western Oregon  
Plan Revisions*

## Western Oregon Plan Revisions Workload:

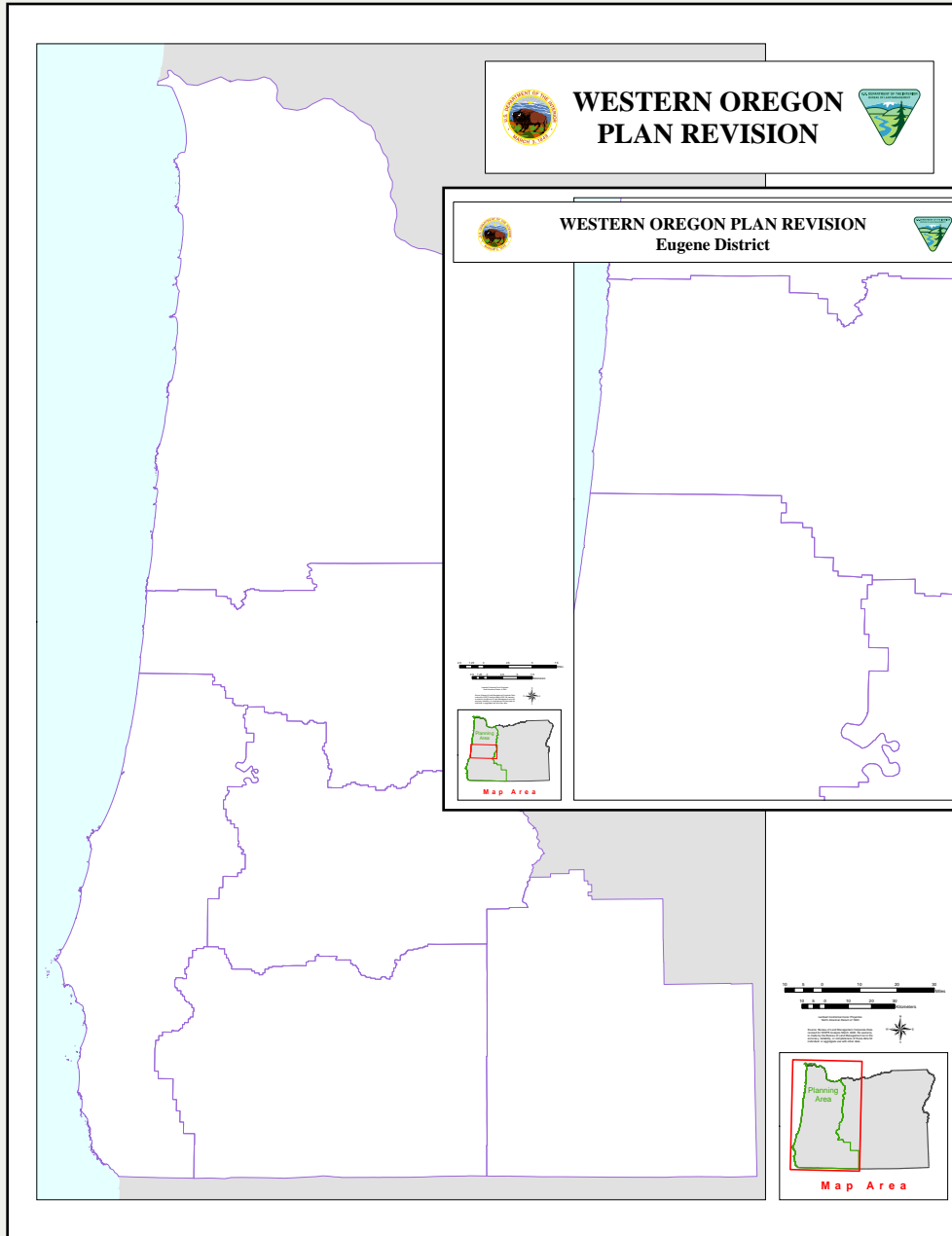
- AMS: 54 maps and figures
- DEIS: 119 maps and figures
- PRMP/FEIS: 161 maps and figures
- RMP/ROD: 98 maps and figures

Countless informational maps

## Workflow: Informational Maps



# ArcMap Templates: Informational Maps



- Stored in shared location
- Linked to central database
- Contain symbolized base data
- Appropriate projection
- Include map elements

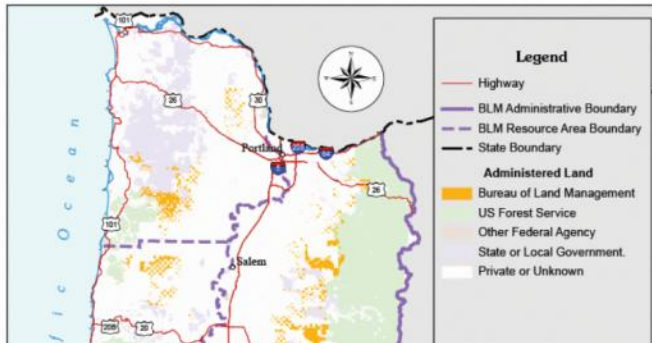


## Workflow: Printed Maps

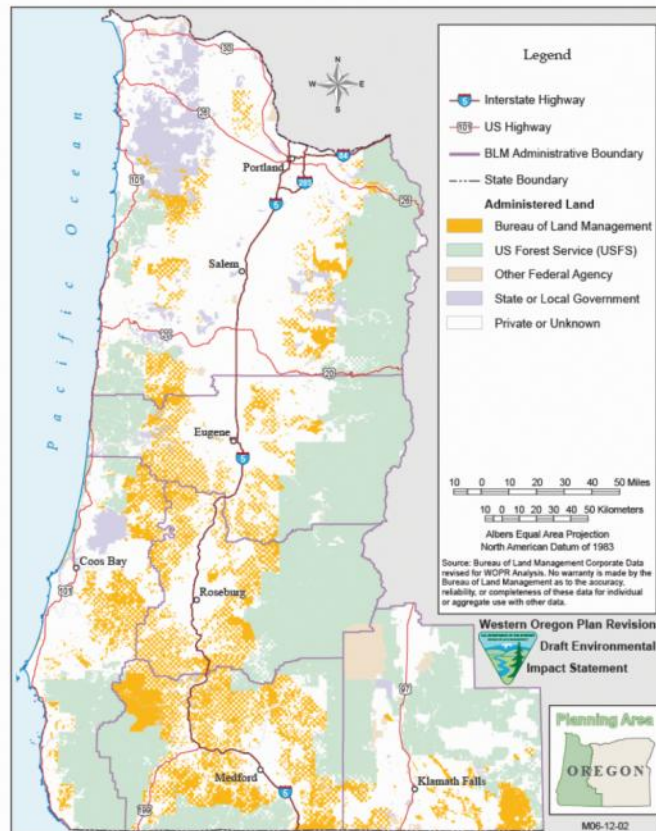


# ArcMap Templates: Printed Maps

- Communicate thematic data to cartographer
- Shared location cartographer can access
- Linked to correct thematic data
- Correct attribute properly classified
- Correct headings, labels and descriptions
- Cartographer can then make decisions regarding scale, extent, color vs. black and white, etc.



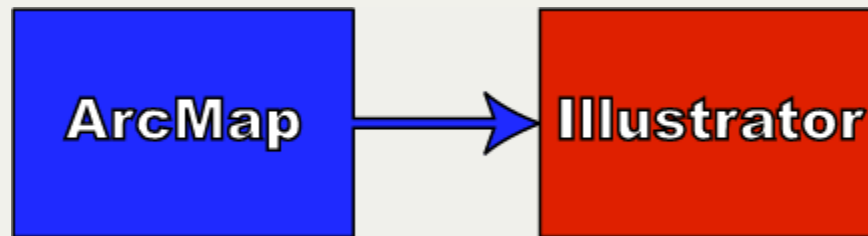
Map X: Western Oregon  
Second Line



Map 190.1: BLM Land in the Planning Area



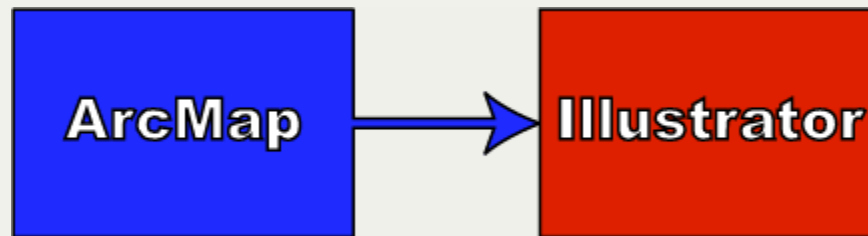
## Bringing GIS Data into Illustrator:



Export to \*.ai, \*.eps or \*.pdf

- Transparency and bitmap fills rasterize output
- Shifting of points based on DPI
- Fonts need to be embedded or on system(s)
- Map becomes a simple “picture”
- etc. etc.

## Bringing GIS Data into Illustrator:



Import using MAPublisher Plug-in

- Georeferencing and attribute information retained
- Allows export back to GIS
- Only way to bring GIS data into graphics unaltered
- Preset symbology lost
- Marginalia and text lost.

# Software Impediments to GIS Mapping:

Things ArcMap doesn't do:

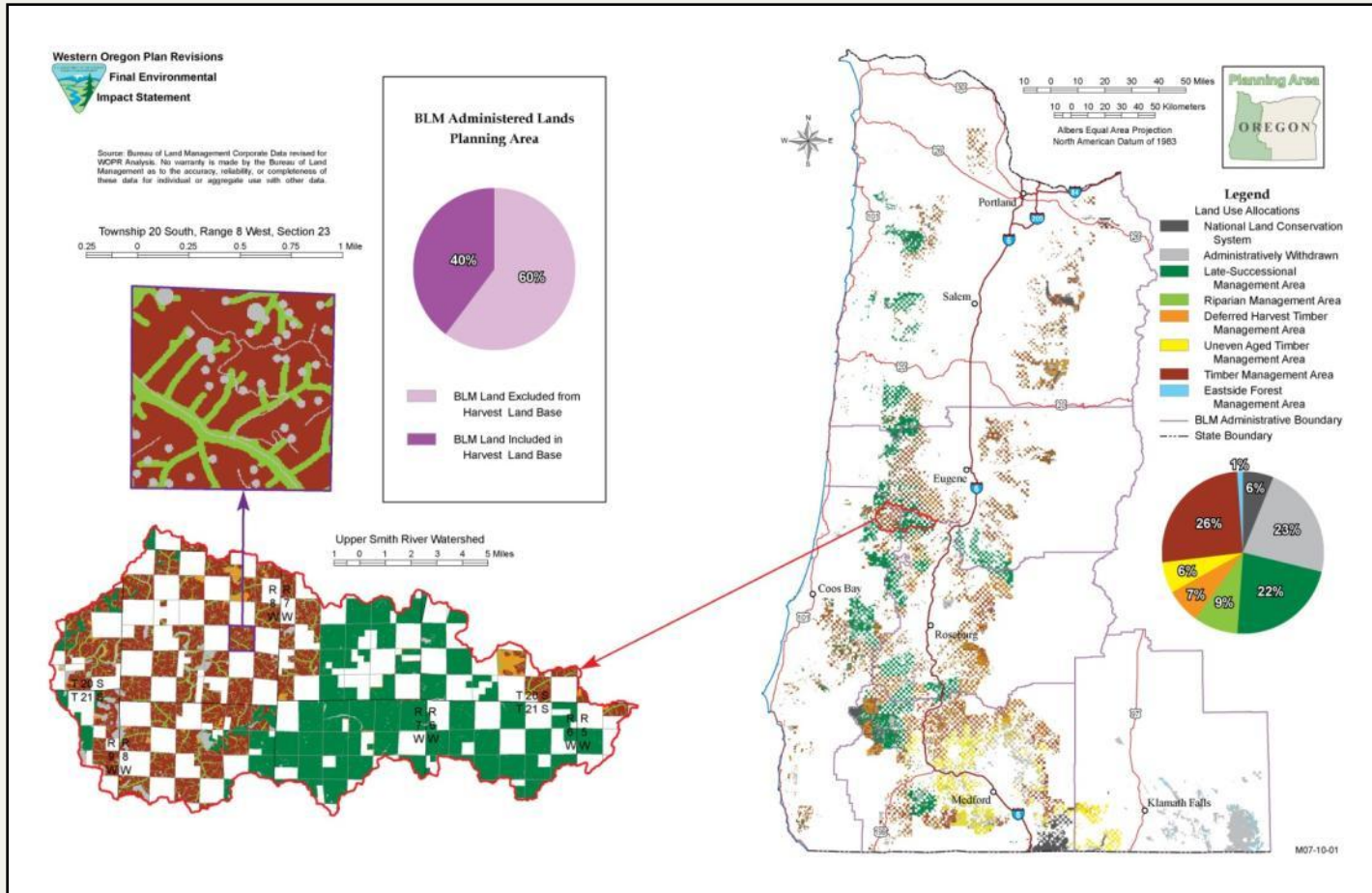
- Overprinting
- Converting text to outline
- Non-rectangular extents
- etc.

Things ArcMap doesn't do well:

- Text properties
- Legend design
- Color management and conversion
- Handling of graphic elements
- etc.



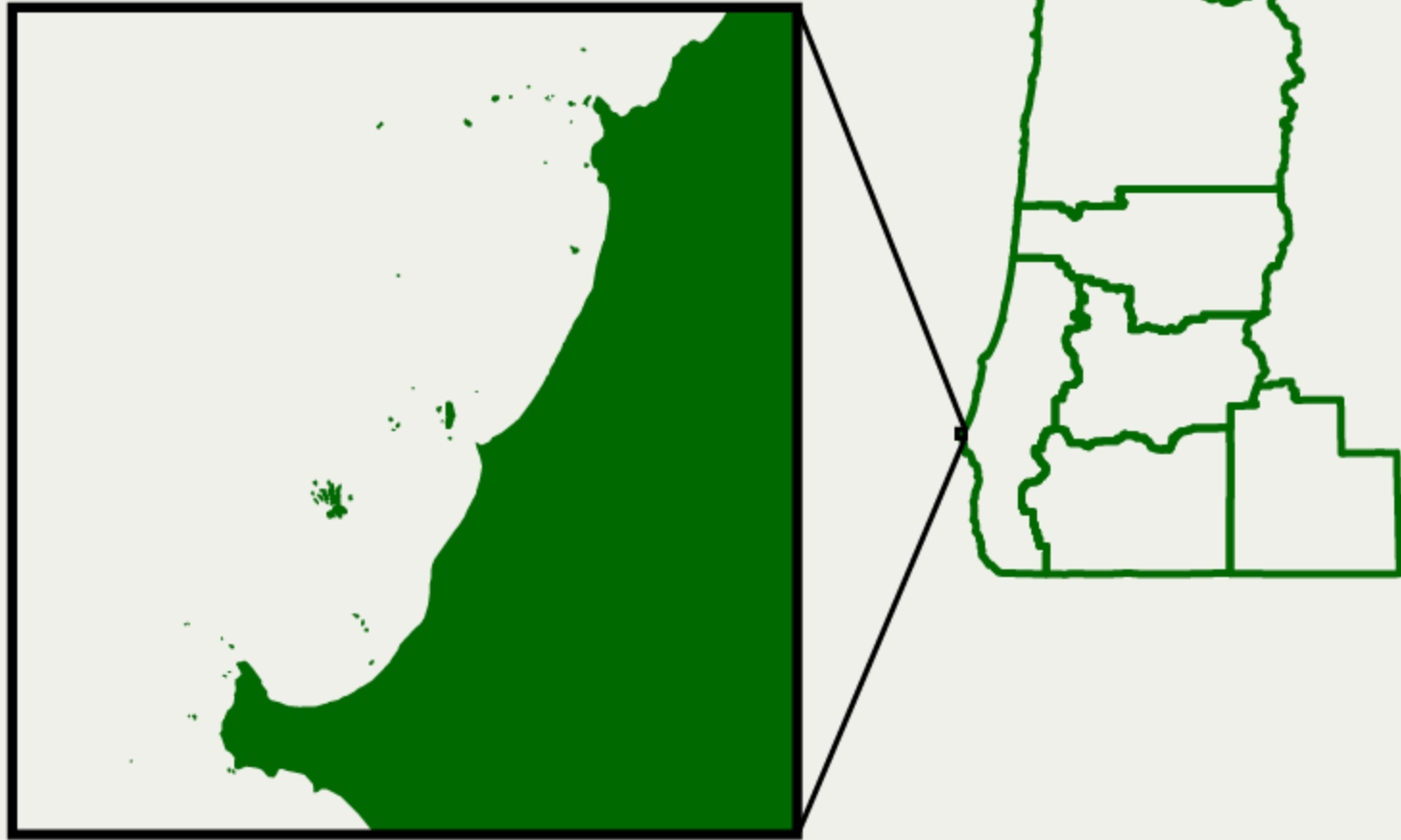
# Data Impediments to GIS Mapping:



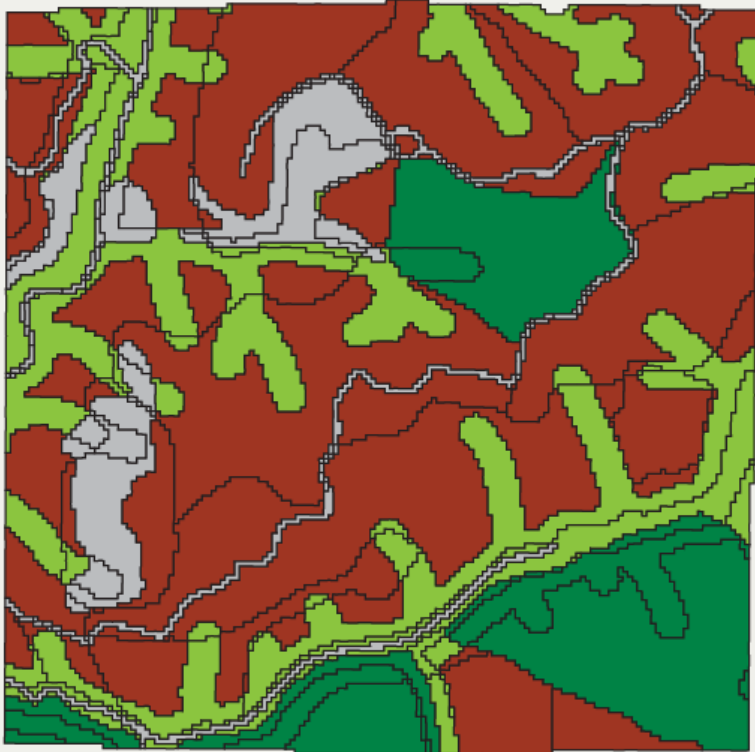
Size and complexity of datasets



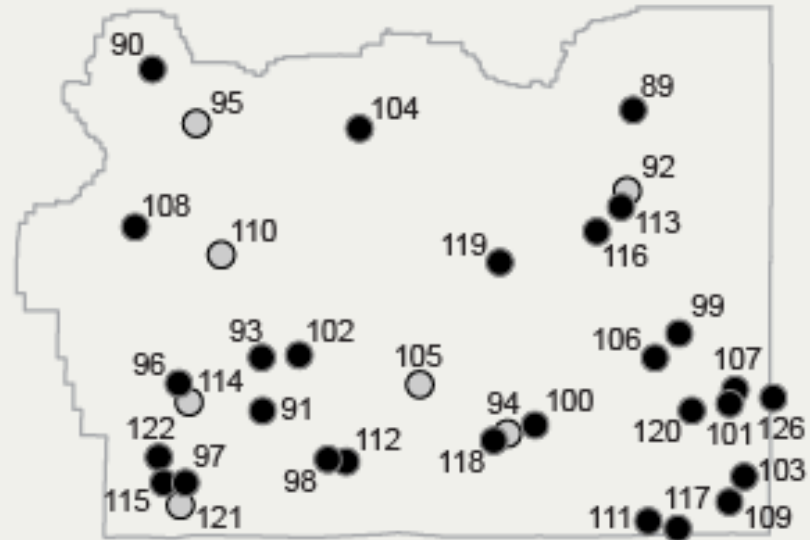
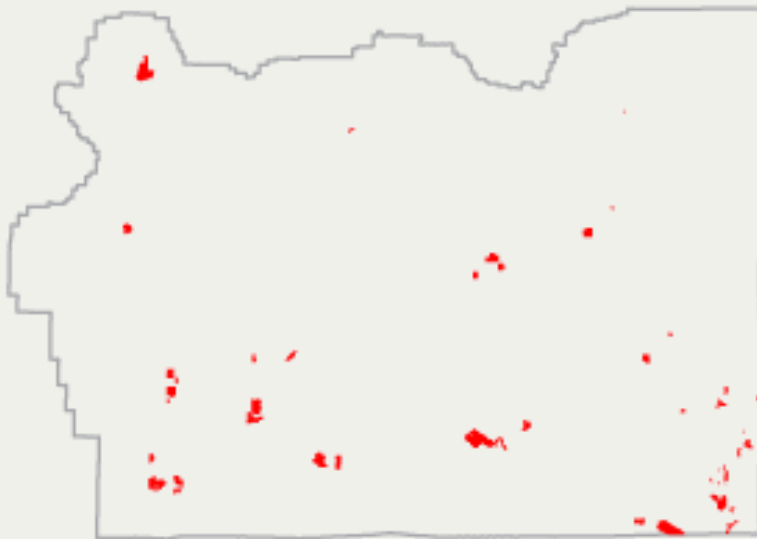
# Generalization: Selection



# Generalization: Classification



# Generalization: Symbolization



# Generalization: Simplification

- Weeding of points at smaller scales
- Problems with contextual generalization
- Maintenance of spatial relationships
- Not used

# GIS: When to stay and when to go

- Keeping maps in GIS allows for rapid changes-  
good for internal review of data and issues
- GIS superior tool for geoprocessing-  
project, clip, dissolve
- GIS software too limited cartographically for final design
- GIS completely lacks some pre-press functionality

# What GIS has meant to cartographic process for the Western Oregon Plan Revisions:

- Centralized data and centralized work areas
- Maps initially created by multiple authors
- Maps created for various purposes
- Mapping integrated with analysis process
- Expanded role for cartographer